

Laurel Message

From: Taft.PA

Date: 24 March 1980 5:23 pm PST
(Monday)

Subject: Bug in 3K CRAM

To: Orr, Overton, Quarterman, Winfield, Mann, Burns

XEROX

The new batch of 3K CRAM boards have an error on them. There is a jumper wire from A61-5 to A60-8 (p. 3 of fabrication instructions) that should not be there. It causes flaky Ethernet behavior on some machines. I found this error during the last round of debugging, but SPG failed to delete this jumper from the fabrication instructions, so it is likely that any boards you have received to date contain this error.

Ed

cc: Blanchard.WBST
DMurray.WBST
Taft

REWORK INSTRUCTION FOR CONTROL MODULE WITH 3K CRAM.
(REFER TO FIGURE1)

CUT ETCH TO FEED THROUGH P2-14 (ETCH SIDE)

CUT ETCH TO FEED THROUGH P2-12 (ETCH SIDE)

CUT ETCH BETWEEN U51-8 AND U51-7 (ETCH)

CUT ETCH TO U70-10 (ETCH SIDE)

ADD JUMPER FROM U37-12 TO U37-7 (ETCH)

ADD JUMPER FROM U51-7 TO U39-3 (ETCH)

ADD JUMPER FROM U68-9 TO FEED THROUGH P2-14 (ETCH SIDE)

ADD JUMPER FROM U68-12 TO FEED THROUGH P2-12 (ETCH SIDE)

ADD JUMPER FROM U25-11 TO FEED THROUGH P3-7 (ETCH SIDE)

ADD JUMPER FROM U25-3 TO FEED THROUGH P3-8 (ETCH SIDE)

ADD JUMPER FROM U25-4 TO FEED THROUGH P3-9 (ETCH SIDE)

ADD JUMPER FROM U25-6 TO FEED THROUGH P3-10 (ETCH SIDE)

REPLACE U51 WITH SW3K PROM (82S126)

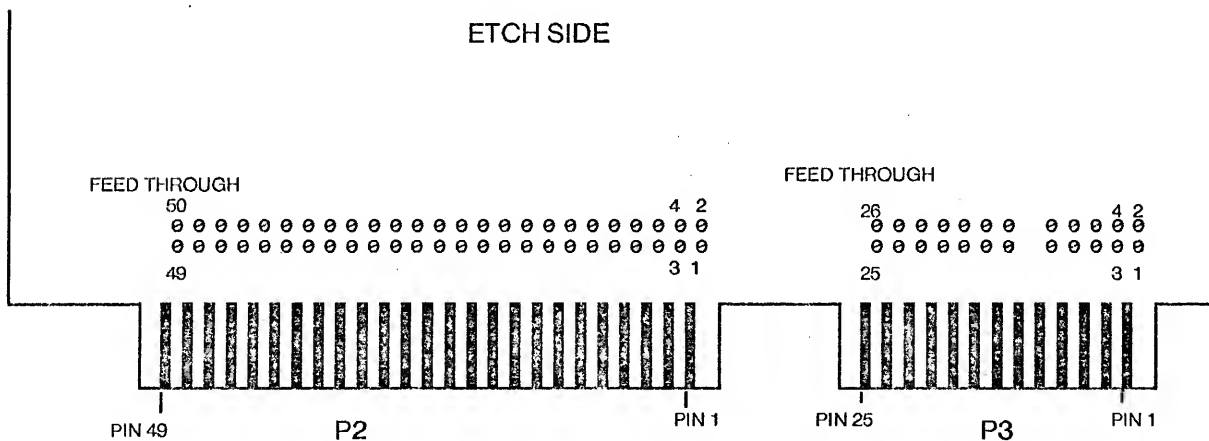


FIGURE 1

ISIS<PAE>DRAWINGS>CONTROL-MOD.SIL

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Title

File

CONTROL-MOD.SIL

Xerox Corporation
El Segundo, California

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Dwg. No.

Rev.

A

Sheet

12

Of

4

Revisions						
LAL	Rev	Description	Chk	Date	Approved	
A	A	ENGRG REL				
	B	ENGRG REL		1/24/80	PAE	
	C			3/1/80	WAKIDA	

ISIS<PAE>DRAWINGS>2178120-C.SIL

Dist Code

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			Check	El Segundo, California	
	1. Tolerances :xx +.03 Angular .xxx +.010 + 1/2°		Appr.		
	2. Break All Sharp Edges .010 Approx —		Material		
	3. Mach. Surfaces √				
	4. All Dim. in Inches				
					ASSEMBLY, PRINTED WIRING- 3K CRAM

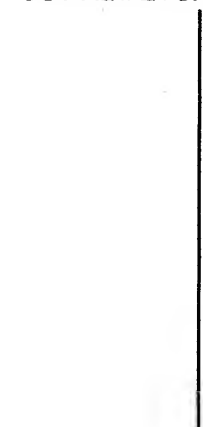
Model No. First Use	Finish	Code Ident 18338	Size A	Dwg. No. 217812	Change Letter C
Next Assy. First Use	File 3KCRAM01.SIL	Scale	Do Not Scale Drawing		Sheet 1 OF 16

NOTE: UNLESS OTHERWISE SPECIFIED.

1. FABRICATE PER XEROX SPEC 209454.

2. CUT ETCH PER INSTRUCTIONS.

A. CUT ALL ETCH LEADING TO



CUT ALL ETCH LEADING TO

A52-11	ONE CUT	(ETCH SIDE)
A49-11	TWO CUTS	(ETCH SIDE)
A50-11	TWO CUTS	(ETCH SIDE)
A62-11	TWO CUTS	(COMP & ETCH)
A63-11	TWO CUTS	(COMP & ETCH)
A65-11	TWO CUTS	(COMP & ETCH)
A75-11	TWO CUTS	(COMP & ETCH)
A78-11	TWO CUTS	(ETCH SIDE)
A88-11	TWO CUTS	(COMP. SIDE)
A91-11	TWO CUTS	(ETCH SIDE)
A61-15	ONE CUTS	(COMP. SIDE)
A25-1	ONE CUT	(ETCH SIDE)

B. CUT BOTH ETCH TO FEEDTHROW BETWEEN A68-18 AND A69-1 (ETCH,COMP)

C. CUT ETCH TO FEED THROUGH BETWEEN A52-10 AND A53-9 (COMP SIDE)

D. CUT ETCH TO EDGE CONNECTOR FINGER	J2-13 (ETCH SIDE)	#
E. CUT ETCH TO EDGE CONNECTOR FINGER	J2-15 (ETCH SIDE)	#
F. CUT ETCH TO EDGE CONNECTOR FINGER	J2-29 (ETCH SIDE)	#
G. CUT ETCH TO EDGE CONNECTOR FINGER	J2-30 (ETCH SIDE)	#
H. CUT ETCH TO A84-1 (COMP SIDE)	#	

3. ADD JUMPER PER INSTRUCTION

A. ADD JUMPER FROM	P2-12	TO	A70-9	(ETCH SIDE)	#
B. ADD JUMPER FROM	P2-13	TO	A90-9	(ETCH SIDE)	#
C. ADD JUMPER FROM	P2-15	TO	A91-9	(ETCH SIDE)	#
D. ADD JUMPER FROM	P2-29	TO	A92-9	(ETCH SIDE)	#
E. ADD JUMPER FROM	P2-30	TO	A93-9	(ETCH SIDE)	#

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Title
ASSEMBLY, P.W.
3K CRAM

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XEROX

217812

FC

Sheet 2 Of 16

4. ADD JUMPER PER INSTRUCTION

a. A49-11 TO A23-5

A62-11 TO A23-3

A75-11 TO A23-1

A88-11 TO A12-1

A50-11 TO A12-3

A52-11 TO A23-9

A63-11 TO A12-5

A65-11 TO A23-11

A78-11 TO A23-13

A91-11 TO A12-13

A21-15 TO A21-8

A24-13 TO A25-1

A87-15 TO A87-8

A66-11 TO A35-7

A57-1 TO P1-69

A57-2 TO A39-1

A57-3 TO A61-15

A61-5 TO A60-8

A45-4 TO A12-9

A12-8 TO FEED THROUGH BETWEEN A52-10 AND A53-9

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3K CRAM**

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C

Sheet

3

Of

16

5.0 DRILL HOLE:

a. DRILL HOLE PER FIGURE3.

6.0 MOUNT CABLE ASSEMBLY (2533) AND PLATE ASSEMBLY (218054-001) PER FIG. 1 AND FIG.2.

7.0A ADD WIRE (OBSERVE FIGURE 4)

CONDUCTOR 1 TO A83-07
 CONDUCTOR 2 TO A84-08
 CONDUCTOR 7 TO A84-13
 CONDUCTOR 8 TO A84-14
 CONDUCTOR 9 TO A84-15
 CONDUCTOR 10 TO A84-01

GND
 GND
 CT8
 CT4
 CT3
 CT1

CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE

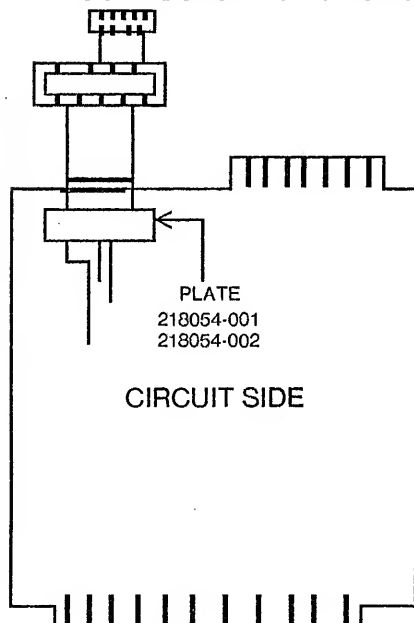


FIG. 1

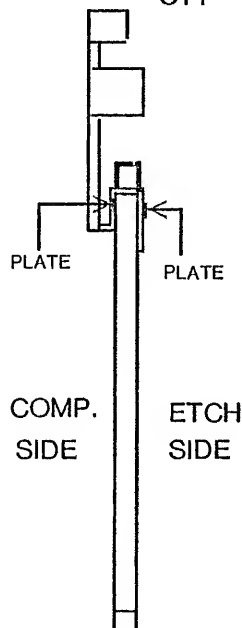


FIG. 2

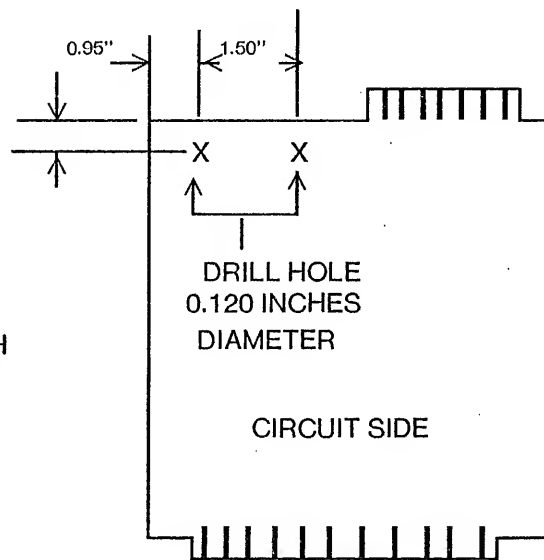


FIG. 3

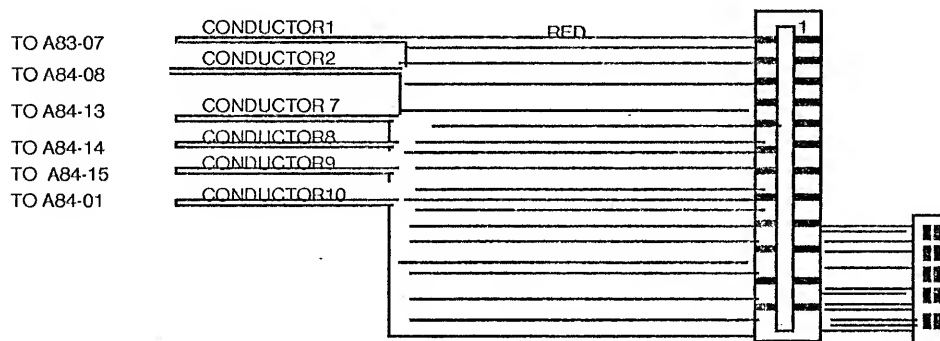


FIG. 4

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Title
 ASSY, P.W.
 3K CRAM
 File
 3KCRAM04.SIL

Xerox Corporation
 El Segundo, California
 XEROX
 Dwg. No.
 217812
 Sheet 4 Of 16
 Rev.
 B

MATERIAL LIST

ML	Drawing No. 217812	Rev. B
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Rev.	Drawing Title	These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and or Rank Xerox, Ltd. issued in strict confidence and shall not, without the prior written permission of Xerox Corporation Rank Xerox, Ltd., be reproduced, copied or used for any purpose whatsoever, except the manufacture of articles for Xerox Corporation or Rank Xerox, Ltd.		
Dwg. No.	ASSEMBLY, P. W. - 3K CRAM	Model No. 3KCRAM05.SIL	Date	Sheet 5 of 16
Item No.	Drawing Title	Drawing No.	No. Req.	Remarks
1	Board, P. W.	217813	1	
2	Procedure, Test		Ref	
3	Spec, Assembly	216207	Ref	
4				
5	Microcircuit 74H00		2	A2, 46
6	74S00		2	A13, 57
7	74S04		6	A1, 11, 12, 23, 45, 58
8	74S08		1	A83
9	74S10		1	A40
10	74S03		4	A36, 42, 43, 44
11	74H20		1	A24
12	74H21		1	A27
13	74S30		2	A26, 28
14	74S32		1	A70
15	74S38		4	A3, 4, 5, 6
16	7438		4	A7, 8, 9, 10
17	74S138		1	A38
18	74S153		1	A59
19	74S157		8	A18, 19, 20, 21, 48, 61, 74, 87
20	74166		2	A72, 85
21	74S174		5	A22, 29, 34, 35, 39
22	74S175		7	A25, 41, 47, 60, 71, 73, 86
23	74S189		1	A84
24	74298		4	A30, 31, 32, 33
25	F93422 FAIRCHILD		4	A14, 15, 16, 17
26	82S126		1	A37
27	Microcircuit 2147-3 INTEL		32	A49 THRU 56
				A62 THRU 69
				A75 THRU 82
				A88 THRU 95

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ML	Drawing No. 217812	Rev. B
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